Zscalar :

Zscaler Client Connector is an application installed on your device to ensure that your internet traffic and access to your organization's internal apps are secure and in compliance with your organization's policies, even when you're off your corporate network.

To provide clean, safe, and compliant internet access and a great user experience to all users, on any device or operating system, over any network—no matter where they are—the solution is a cloud-based proxy architecture.

Proxy :

Proxy server refers to a server that acts as an intermediary between the request made by clients, and a particular server for some services or requests for some resources. There are different types of proxy servers available that are put into use according to the purpose of a request made by the clients to the servers. The basic purpose of Proxy servers is to protect the direct connection of Internet clients and internet resources. The proxy server also prevents the identification of the client’s IP address when the client makes any request is made to any other servers.

How zscaler proxy works :

A cloud proxy can protect sensitive data (e.g., PCI data, PII) by acting as a middleman or stand-in for the server on which that data resides. Client requests are routed first to the cloud proxy, then through a specified port in any applicable firewall, and then to the content server—and finally, back again. The client and the server never communicate directly, but the client interprets responses as if they had. Here are the basic steps:

1. Client sends a request, which the cloud proxy intercepts
2. Cloud proxy forwards the incoming request to a firewall if applicable
3. Firewall either blocks the request or forwards it to the server
4. Server sends response through the firewall to the proxy
5. Cloud proxy sends the response to the client

Securing Unmanaged Devices

Many of your employees may use multiple devices for work, including personal ones. Beyond that, plenty of suppliers, partners, and customers may need access to your internal applications on their own unmanaged devices, presenting a risk to your security.

You can install agents to manage devices your organization owns, but unmanaged endpoints are a different story. Third parties won't let you install agents on their endpoints, and many employees don't want agents on their personal devices, either. Instead, our proxy architecture offers agentless protection against data leakage and malware from any unmanaged device accessing your cloud applications and resources.

Data Protection

The Zscaler proxy architecture can enforce data loss prevention policies to prevent accidental or intentional uploads or downloads of sensitive information to or from sanctioned cloud apps. Because it operates inline and inspects all traffic, even encrypted traffic, it can ensure uploaded or downloaded data falls in line with your policies.

Threat Prevention

An infected file in a cloud service can spread to connected apps and devices —especially unmanaged devices. By agentlessly preventing uploads or downloads of infected files to or from cloud resources, our proxy architecture provides advanced threat protection against malware and ransomware.

By nature, our architecture also hides servers and their IP addresses from clients, which protects your web resources from threats such as distributed denial of service (DDoS attacks).

Load Balancing

The Zscaler proxy can be used to handle client requests that could otherwise overwhelm a single server with high demand, promoting high availability and optimizing load times by distributing requests to your servers evenly.

Security

- Integrated, Comprehensive & On-demand
- Web 2.0 threat protection

Global Distributed Architecture

- SaaS based,highly scalable and reliable model
- Global policy – single policy follows user

Compliance & Real-Time Reporting

- Consolidated reporting and tracking in real-time
- Centralized management with application-based policies

Cost Savings

- No appliance and software related costs
- Operational expense vs. Capital expense

Simplicity

- Eliminates complex point solutions
- Easy to deploy and manage policies